



系微股份有限公司

“A Provider of innovative technology & advanced service”



San Jose January 23-24, 2001



Taipei February 14-15, 2001

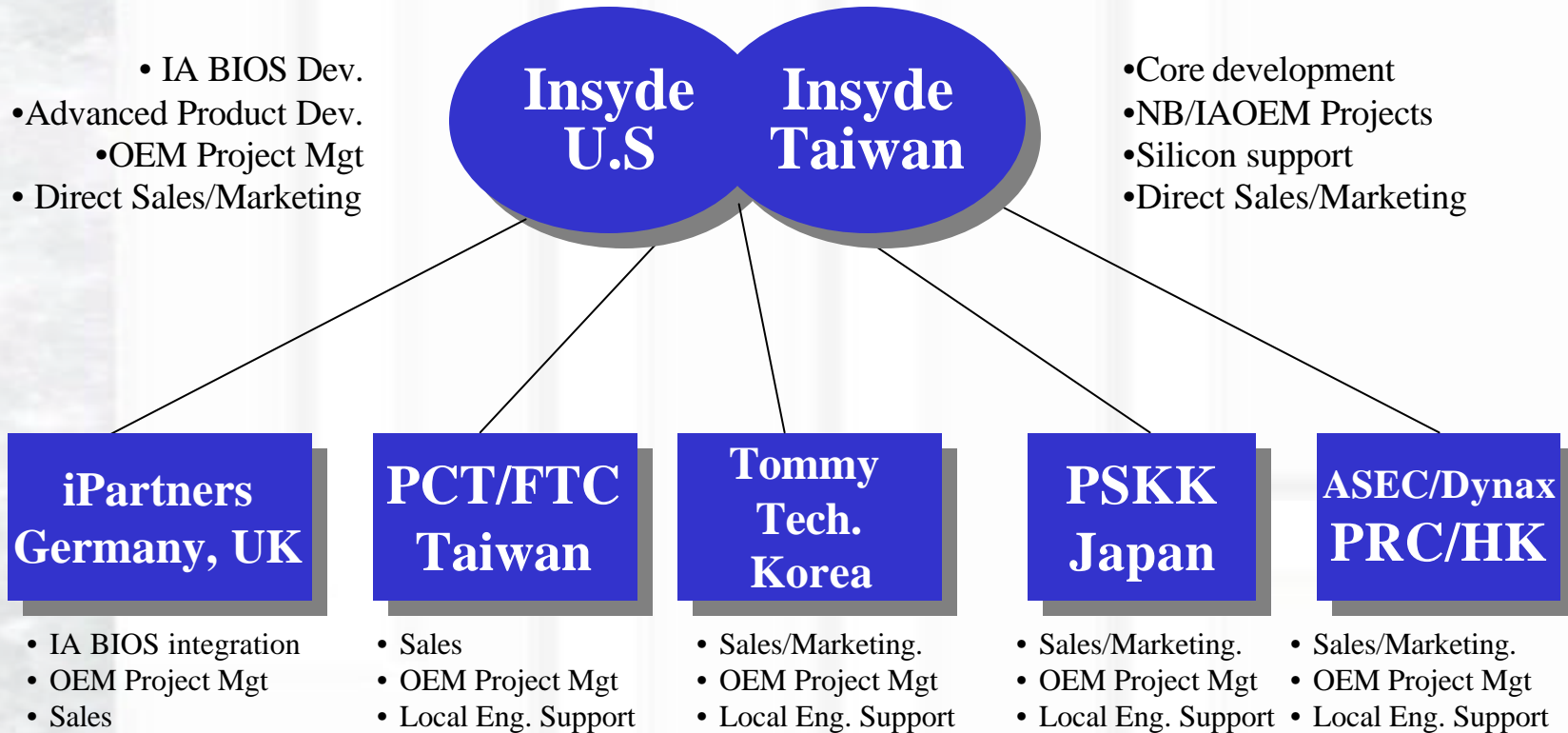
Agenda

- Company overview
- Market focus
- Engineering support services
- Introduction to XpressROM™
- XpressROM™ roadmap for reference design
- XpressROM™ supporting process
- Why Insyde?
- Our Customers
- Contact information

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World Wide Engineering & Sales



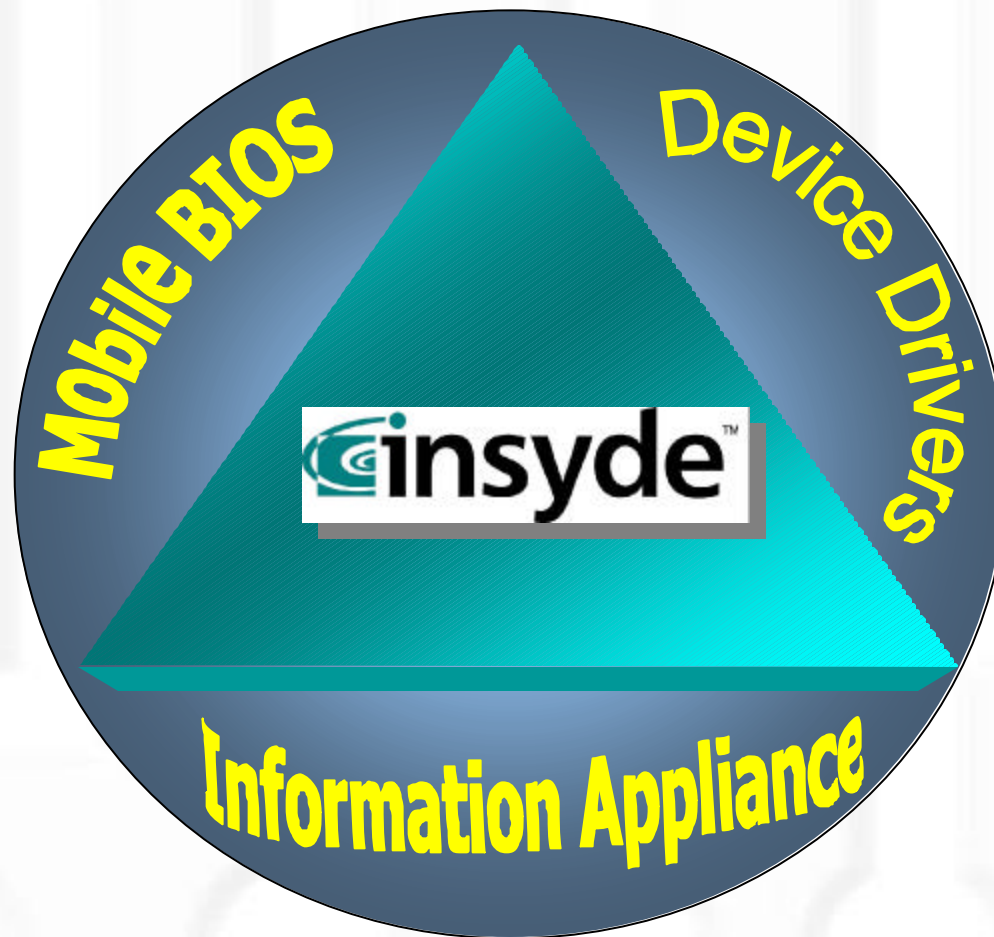
Company Background

- Founded September 1998 by former SystemSoft employees
- Acquired all BIOS IPs from SystemSoft which has a 9-year experience in BIOS, EC, Drivers and Power management technologies.

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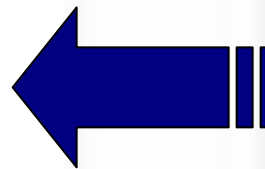
Market Focus



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Engineering Support Services



Hardware Design Review

Power Mgt. Consulting

On-Site Board Bring Up

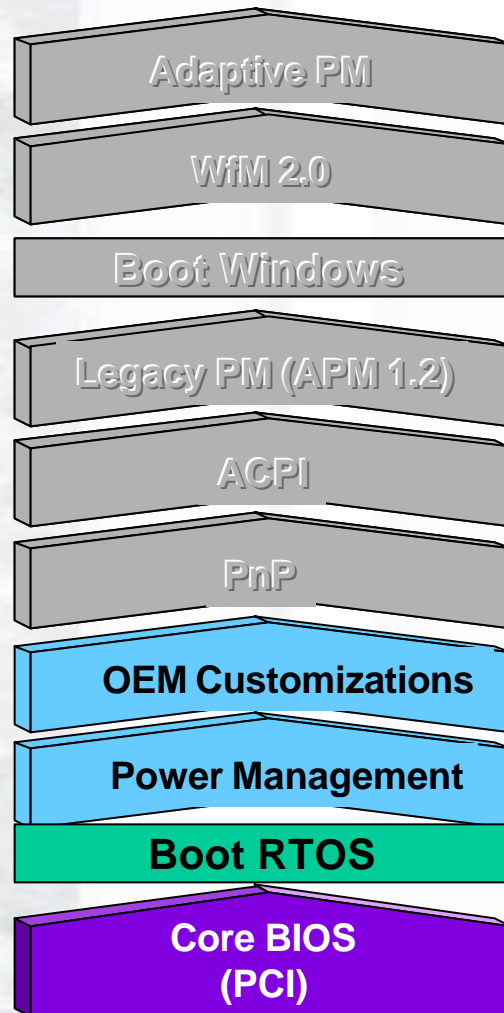
Firmware Training Course

Custom Firmware Adaptation

Source Code Maintenance

Device Driver provider

Information Appliance BIOS Product Architecture

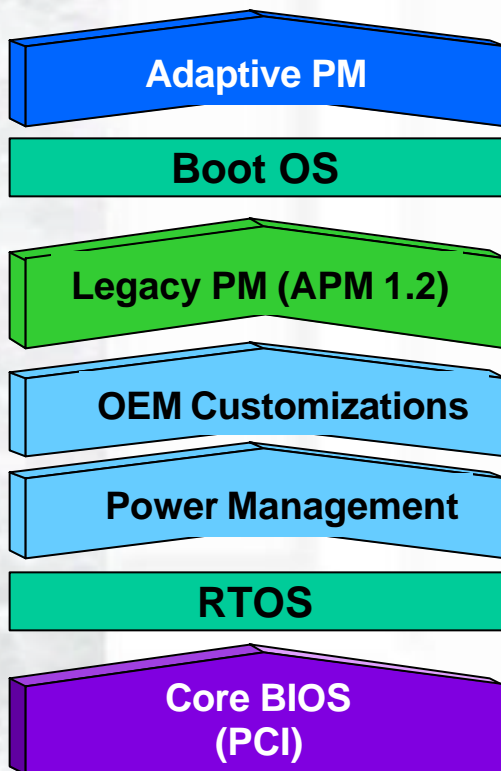


? Win 98/2000
? Basic PC98/99/00
? DOS
? Win 3.x
? Win 95/98/NT

? QNX
? WinCE
? Linux
? BeOS
? Vxworks

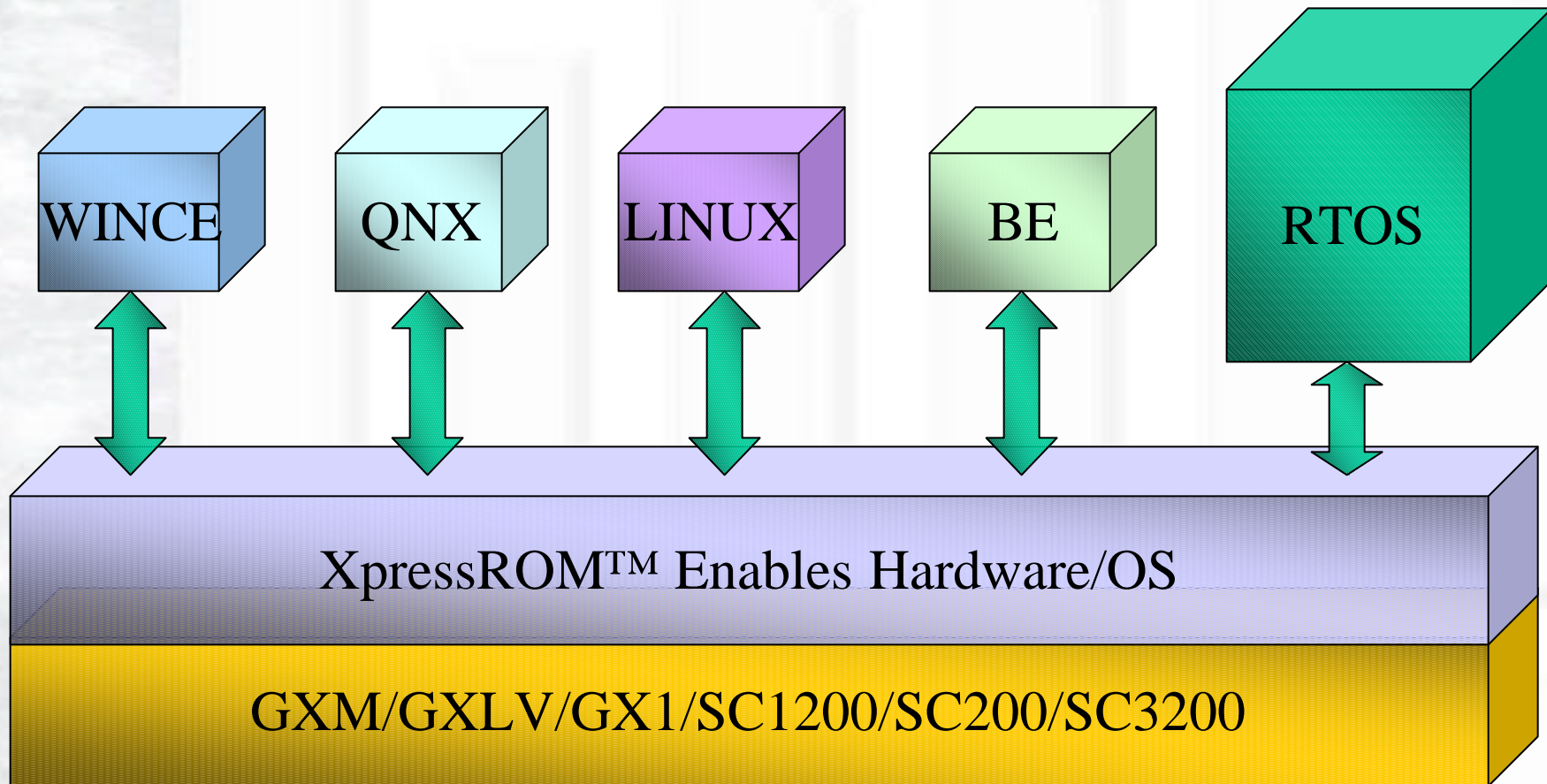
Information Appliance BIOS

Special Features



- ? Configurator
- ? Binary Adaptation Program
- ? Embedded control support
- ? Instant On 3sec to 5sec
- ? USB PC Legacy Support
- ? Security feature provided
- ? Small memory footprint

NSC solution for IA



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Introduction to XpressROM™

- Hardware Diagnosis during POST
- Turn on Operating Systems
- Easy to Configure and Maintain

XpressROM™ definition

- XpressROM™ is a set of software modules.
- To provide a firmware solution for National IA products GXM, GX1, GXLV, SC1200, SC2200, SC3200, GX2.

XpressROM™ Functionality

- Microprocessor initialization
- Chipset initialization
- SuperI/O initialization (optional)
- SMI API
- Virtual H/W emulation
 - VGA
 - Audio
 - A20M, port 92
 - UARTs
 - RTC/CMOS
 - Power Management
 - APM 1.2
- PS/2 Keyboard and Mouse
- Legacy USB mouse, USB Keyboard.
- INT 13h (HDD & FDD)
- Boot from HDD or FDD
- PCI services
- PCI resource assignment
- Option ROM init
- POST splash and summary
- Parallel Port functions
- Serial Port functions
- TV Encoder (in progress)
- NSC specific NVRAM read/write interface
- NSC specific I²C read/write interface
- Other miscellaneous INTs and entry points

Why XpressROM™?

- Quick POST for Instant On
- Reduce developing time by Configurator Utility
- Multiple RTOS support

Why XpressROM? (Cont)

- The complete Firmware solution for a series of NSC's IA designs
- Experienced Engineering support by Insyde

Configurator Utility

- Generate ROM by asking simple questions
- Translate user's answers into OPTIONS.INC file
- Easy to include or exclude features

A Sample of Questionnaires for XpressROM™ Build

Geode processor?

GXm GX1 GXLV
SC1200 SC2200 SC3200

Are you using XpressAUDIO?

What CODEC are you using?

LM4x4x/AD1819/AKM4532

What is the XpressAUDIO base address?

220/ 240/ 260/280

Are you using XpressGRAPHICS?

Yes/No

How much video memory do you want?

768KB 1MB 1.5MB 2.0MB
2.5MB 4MB

What kind of LCD Flat Panel are you using?

TFT/ DSTN

What is the access method for the DSTN controller? ?

9210 chip 9211 chip

What is the default resolution of the LCD Flat Panel?

640x480 800x600 1024x768

CRT on by default as well as the LCD?

Yes No

Are you using an TV out?

Yes No

Do you want to be able to boot from an ATA drive?

Yes No

Do you want to have access to a floppy drive?

Yes No

Do you need PS/2 keyboard and mouse services?

Yes No

Do you need 32 bit protected mode PCI CFG routines?

Yes No

Is the USB controller to be enabled?

Yes No

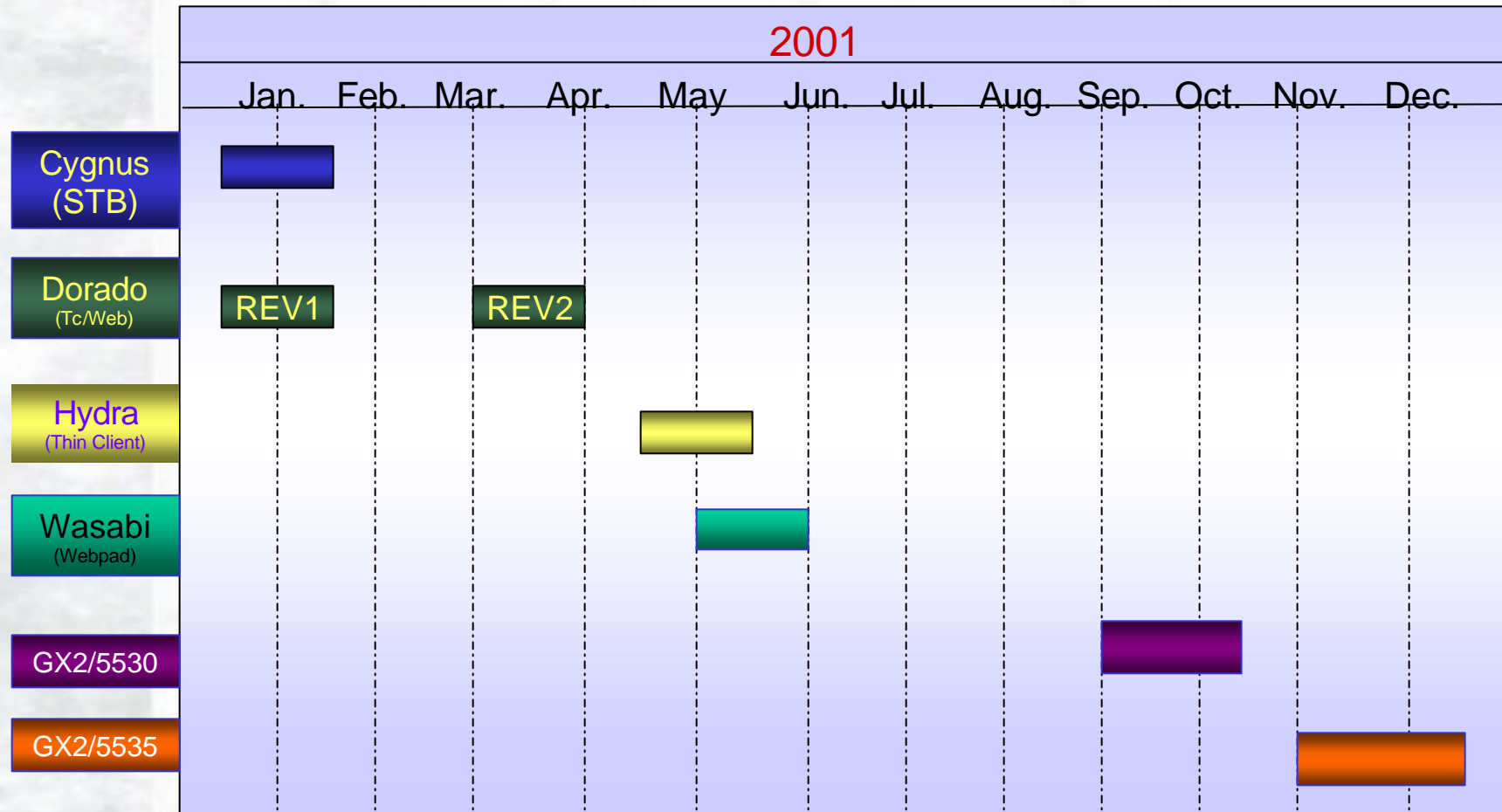
Do you want to include any option ROM?

Yes No

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XpressROM™ roadmap for reference design



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XpressROM™ Supporting Process

Phase 1 → Phase 2 → Phase 3 → Phase 4 → Phase 5

Engage

H/W Debug

BIOS
Customization

Turn-On OS

Pilot-Run
Mass prod.

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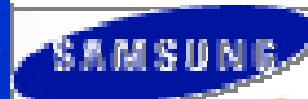
Why Insyde?

- The first company which enables the hardware and OS for IA market
- To help customers with complete support from “Design” to “Production”
- Experienced engineer team for IA products
- Insyde is the only BIOS vendor who provides you the real IA BIOS – XpressROM™

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Contact Information

Taiwan

Insyde Software Corp.

4F, No. 137, Chien Kuo N. Rd.
Taipei, Taiwan, R.O.C.

886-22-506-1289

<http://www.insydesw.com.tw>
Ted.chen@insydesw.com.tw
Daniel.yu@insydesw.com.tw

PRC/Hong Kong

ASEC International (HK) Ltd.

Rm D, 6/F, International
Trade Commercial Building,
Nanhu Road, Shenzhen I.

Kenyeung@asec.com.hk

Dynax Electronics (HK) Ltd.

Unit D, 6/F, Hop Hing Ind.
Bldg., 704 Castle Peak
Road, Lai Chi Kok, Kowloon,
HK

dave100@hkstar.com

Dave100@hkstar.com

Korea

Tommy Technologies Corp.

Room 407, Heehoon Tower
B/D 110-1 GURODONG,
GUROGU, SEOUL KOREA

Simon@tommytech.co.kr